

TABLE OF CONTENTS

Licensing

1: Electrostatic Fields

- 1.1: Charges and Static Electric Forces
- 1.2: Electric Field
- 1.3: Computing Electric Fields for Known Charge Distributions
- 1.4: Dipoles
- 1.5: Conductors
- 1.6: Gauss's Law
- 1.7: Using Gauss's Law
- 1.8: Method of Images

2: Electrostatic Energy

- 2.1: Potential Energy of Charge Assembly
- 2.2: Electrostatic Potential
- 2.3: Computing Potential Fields for Known Charge Distributions
- 2.4: Capacitance
- 2.5: Dielectrics
- 2.6: Static Networks

3: Direct Current Circuits

- 3.1: Moving Charge
- 3.2: Resistance and Energy Dissipation
- 3.3: Networks of Batteries and Resistors
- 3.4: Kirchhoff's Rules
- 3.5: RC Circuits

4: Magnetism

- 4.1: Magnetic Force
- 4.2: Magnetic Moment and Torque
- 4.3: Magnetic Field
- 4.4: Sources of Magnetic Fields
- 4.5: Ampère's Law

5: Electromagnetism

- 5.1: Magnetic Induction
- 5.2: Consequences and Applications of Induction
- 5.3: Inductance
- 5.4: Inductors in Circuits
- 5.5: Maxwell's Equations
- 5.6: Electromagnetic Waves

Index

[Glossary](#)

[Detailed Licensing](#)